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Ryan et al.

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(54) **CO-POLYMER FILMS FOR SENSORS**

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(51) **Int. Cl.**

C08F 26/06 (2006.01)

C08F 126/06 (2006.01)

(52) **U.S. Cl.** **526/260**; 526/265

(58) **Field of Classification Search** 526/260, 526/265

See application file for complete search history.

(56) **References Cited**

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Primary Examiner — Ling Choi

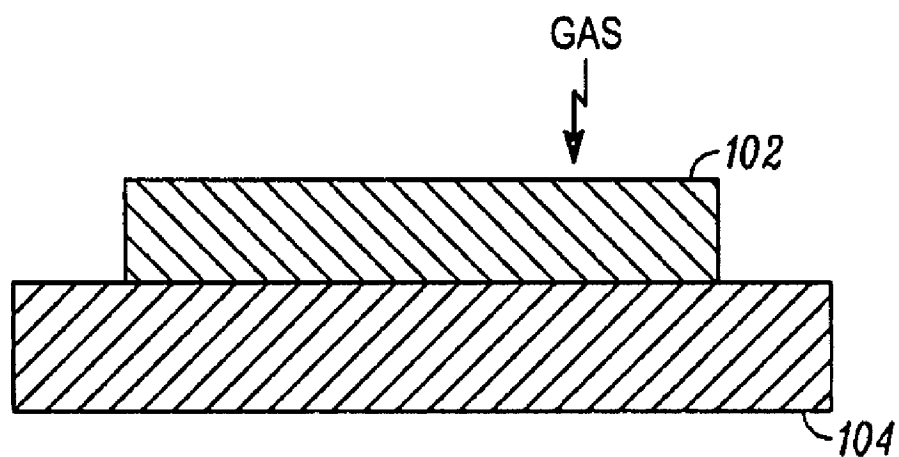
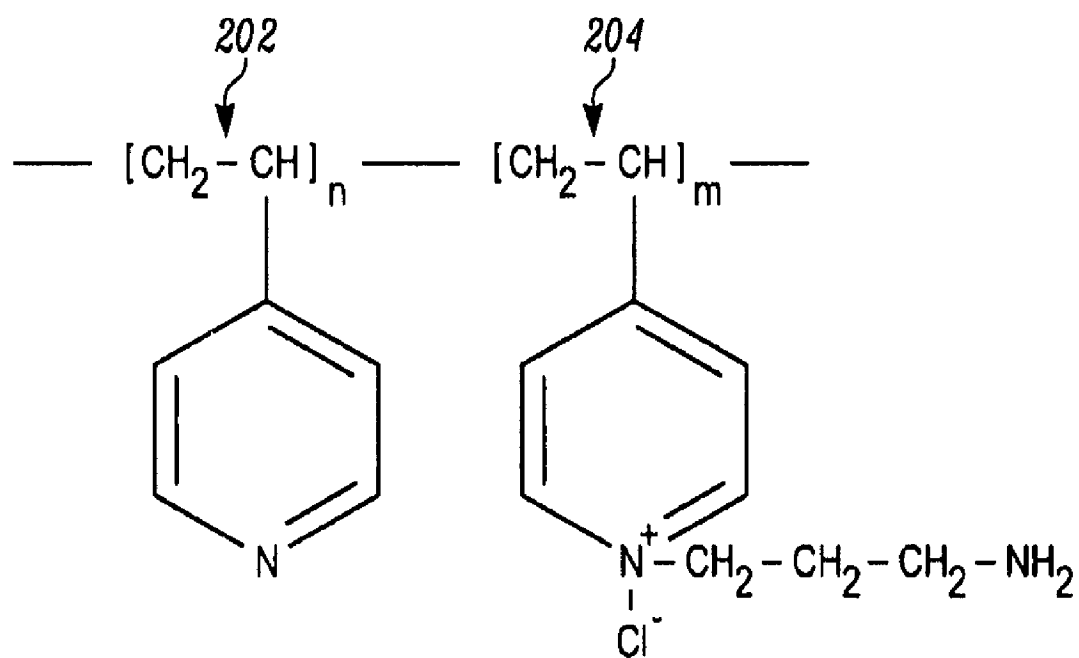
Assistant Examiner — Chun-Cheng Wang

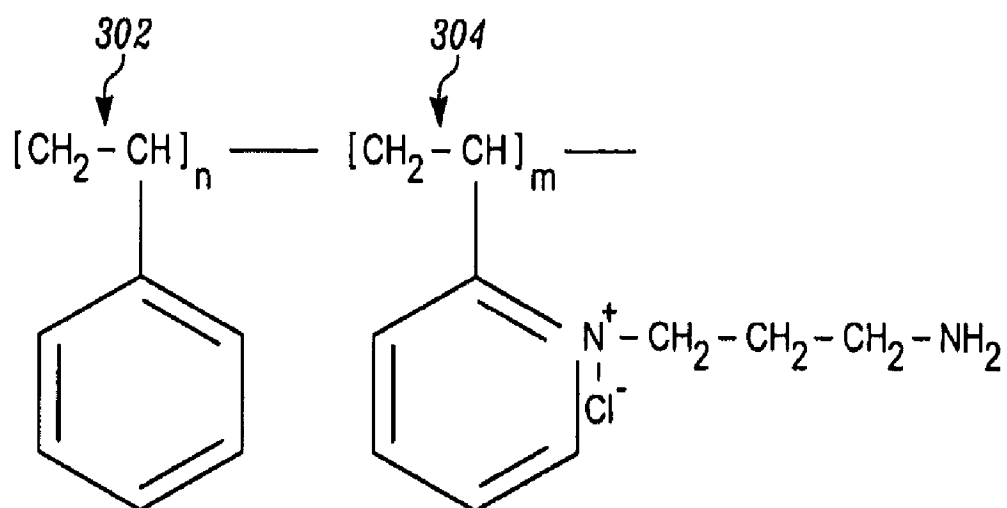
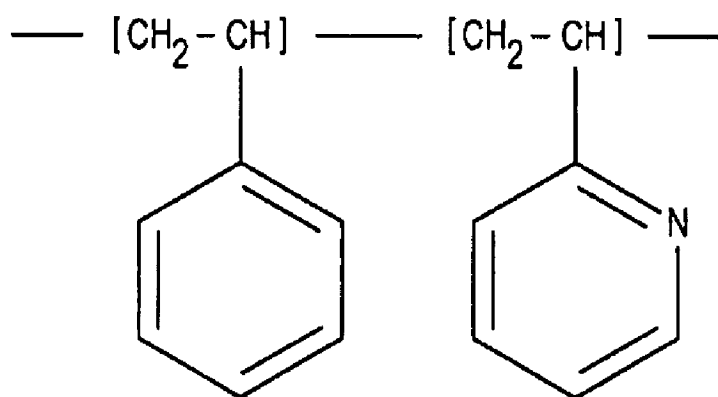
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(57) **ABSTRACT**

Embodiments include a sensor comprising a co-polymer, the co-polymer comprising a first monomer and a second monomer. For some embodiments, the first monomer is poly-4-vinyl pyridine, and the second monomer is poly-4-vinyl pyridinium propylamine chloride. For some embodiments, the first monomer is polystyrene and the second monomer is poly-2-vinyl pyridinium propylamine chloride. For some embodiments, the first monomer is poly-4-vinyl pyridine, and the second monomer is poly-4-vinyl pyridinium benzylamine chloride. Other embodiments are described and claimed.

11 Claims, 4 Drawing Sheets

*FIG. 1**FIG. 2*

*FIG. 3*

(PRIOR ART)

FIG. 4

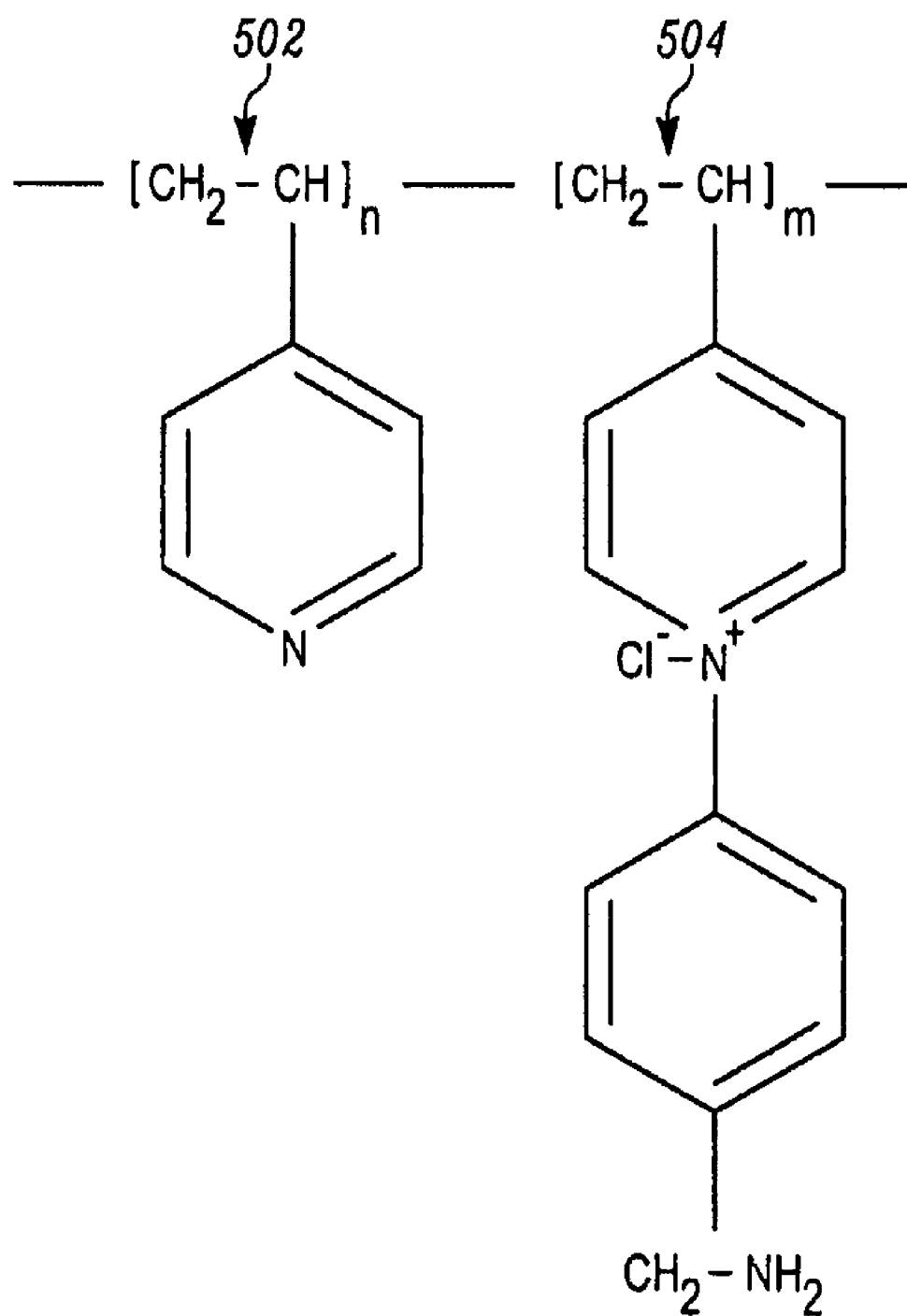
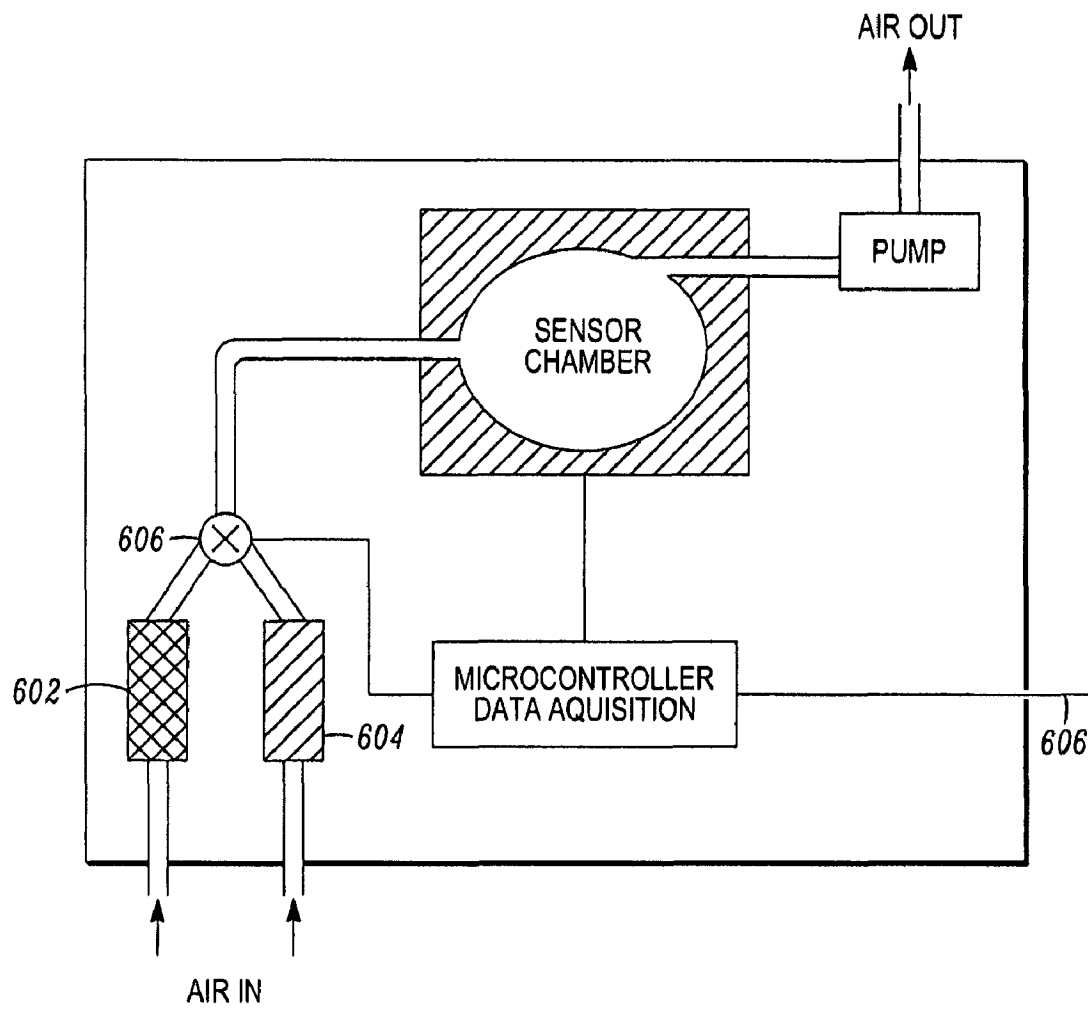


FIG. 5

*FIG. 6*